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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,934	03/30/2001	David W. Cannell	05725.0878-00	4153
22852	7590 08/13/2002			
FINNEGAN, HENDERSON, FARABOW, GARRETT &			EXAMINER	
DUNNER LL	-	CHANNAVAJJALA, LAKSHMI SARADA		
1300 I STREE	•			
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1616	
			1615	_
			DATE MAILED: 08/13/2002	7 .

Please find below and/or attached an Office communication concerning this application or proceeding.

'		Application No.	Applicant(s)			
Office Action Summary		09/820,934	CANNELL ET AL.			
		Examiner	Art Unit			
		Lakshmi S Channavajjala	1615			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[\]	Responsive to communication(s) filed on 24 N					
2a)□ —	,	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 Q.G. 213.						
4	Disposition of Claims 4)⊠ Claim(s) 1-186 iš/are pending in the application.					
•	4a) Of the above claim(s) 10-12,20-28 and 60-186 is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-9,13-19 and 29-59</u> is/are rejected.					
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·	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	ion Papers	·				
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
_	Applicant may not request that any objection to the		, <i>,</i>			
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic	te of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Receipt of response to election requirement dated 5-24-02 is acknowledged.

Election/Restrictions

1. Applicant's election with traverse of Group I in Paper No. 6 is acknowledged. The traversal is on the ground(s) that the examiner has not shown that examining the groups as well as species, would constitute a serious burden. Further, applicants argue that all the groups are classified in the same class and therefore a search for these groups should be overlapping. This is not found persuasive because a search and examination of one group would not necessarily encompass a search for all the groups. The composition of group I can be used not just for hair but also for treating skin. Further, the intended use of the composition is not given patentable weight. Furthermore, the search includes not just patent literature but also non-patent literature. With respect to species, the instant claims include a vast number of species, various combinations and their sub-combinations, which does constitute a serious burden on the examiner in searching all the claimed inventions. Additionally, unless applicants declare equivalence of all species, a reference anticipating or rendering obvious one species would not necessarily anticipate or render obvious all the other species claimed. Therefore, a separate search and examination would have to be performed for each separate species claimed.

The requirement is still deemed proper and is therefore made FINAL.

Applicants elected Group I drawn to a composition and for the species, polymer (A) (3), which derivatives of polysaccharide polymers comprising at least two quaternary ammonium groups (Polyquaternioum-10) and (B)(1), which read on pentoses and their derivatives (XYLIANCE). The claims that read on instant elected species are 1-9 and 13-19 and 29-59.

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Claims 10-12, 20-28 and 50-186 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Summary of the claims

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2. Instant claims are directed to a composition for durable conditioning of at least one keratin fiber comprising at least one compound chosen from C3 to C5 monosaccharides, substituted with C1 to C22 carbon chain and at least one compound comprising at least two quaternary ammonium groups, wherein the compound is present in an amount effectively to durably condition at least one keratin. However, instant claims recite the intended use "for durable conditioning of at least one keratin fiber", which does not carry patentable weight. Accordingly, instant claims are treated as compositions comprising C3 to C5 monosaccharides, substituted with C1 to C22 carbon chain and at least one compound comprising at least two quaternary ammonium groups.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground

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provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-9, 13-19 and 29-59 are provisionally rejected under the judicially created 12. doctrine of obviousness-type double patenting as being unpatentable over claims 1-85, 152 and 153 of copending Application No. 09/820,480. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims are obvious over the copending claims. Instant claims are drawn to a composition containing C1 to C22 substituted C3 to C5 monosaccharides, and method of protecting hair using the same. Copending claims are drawn to a composition containing C3 to C5 monosaccharides, with film forming polymers of the instant claims. The monosaccharides, film forming polymers and their amounts claimed in the copending application are same as that of the instant. While both sets of claims recite different purposes (i.e., shaping of hair or conditioning of hair), it would have been obvious for one of an ordinary skill in the art at the time of the instant invention to use the composition of copending claims containing C3 to C5 monosaccharides and film forming polymers of because the copending claims teach C3 to C5 monosaccharides, which include both substituted and unsubstituted monosaccharides. Further claim 139 of the copending claim specifically states substituted C1to C22 monosaccharides. Accordingly, one of ordinary skill in the art would have expected that the composition of copending claims i.e., C1 to C22 substituted C3 to C5 monosaccharides and film forming polymers condition the hair as well as impart durable nonpermanent shaping to the hair.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 13-19 and 29-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,235,298 to Naser et al (hereafter Naser) and US 5688930 to Bertho et al (hereafter Bertho).

Naser teaches Phase stable emulsion composition for hair treatment, in particular delivering topically active compounds to skin and hair, in the form of hair fixatives, hair dyes, hair relaxers or straightners etc 9col. 5, lines 10-53), comprising surfactants, thickeners etc.

Naser teaches a water-soluble quaternary ammonium hair conditioner such as the claimed Polyquaternium-10 (col. 5, lines 54-68 and col.6, in particular line 46 of col.6 and col. 7, lines 19-32). Naser also teaches incorporating an anionic polysaccharide, obtained from seaweeds, in the compositions. The latter includes xylose, arabinose etc (col. 18, lines 44-64). The reference fails to teach the exact amounts of water-soluble quaternary ammonium hair conditioner. However, Naser teaches the water-soluble quaternary ammonium compound as an active agent for topical delivery. Accordingly, optimizing the amount of water-soluble quaternary ammonium hair conditioner with an expectation to achieve the optimum hair conditioning effect would have been obvious for one of an ordinary skill in the art. Naser fails to teach the claimed pentoses or XYLIANCE (elected by applicants).

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Bertho teaches alkyl pentosides from wheat products, which is a mixture of glycosides such as glucose, xylose and arabinose (col. 2, lines 35-45). Thus, xylose is a part of the pentoside. Bertho teaches the mixtures as surfactants for hair care (col. 6, lines 14-34). The alkyl groups of Bertho range from 6-22 carbons, specifically 14-20 C, which is within the claimed range. (Col. 3, lines 53-67 and col. 7, lines 6-9), at a concentration of 0.1% to 60% (col. 7, lines 13-18).

Therefore, it would have been obvious for one of an ordinary skill in the art at the time of the instant invention to incorporate the alkyl pentoside mixture of Bertho in the hair composition containing the Polyquaternium-10 hair conditioner of Naser because Bertho suggests that their raw material is cheap having economic advantage (col. 1, lines 35-45) and has the ability to act as a surfactant, enhance foaming, emulsifying and detergent power (col. 6, lines 33-35). One of an ordinary skill in the art would have expected to improve the emulsifying power of the composition of Naser with a cheaper material of Bertho.

Information Disclosure Statement

Items #18 and #19 on the IDS are not considered because they lack date.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S Channavajjala whose telephone number is 703-308-2438. The examiner can normally be reached on 7.30 AM -4.00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 703-308-2927. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-308-7924 for regular communications and 703-308-7924 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Lakshmi S Channavajjala

Examiner

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August 12, 2002